

U. S. DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

CHARLES F. MARVIN, CHIEF

CLIMATOLOGICAL DATA

TEXAS SECTION

AUGUST, 1918

BY
BERNARD BUNNEMEYER
METEOROLOGIST.



HOUSTON, TEX.
WEATHER BUREAU OFFICE
OCTOBER 4, 1918.

Departure of the Mean Temperature from the Normal, August, 1918.



Shaded portions show excess (+). Unshaded portions show deficiency (-). Lines show amount of excess or deficiency.

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TEXAS SECTION.

BERNARD BUNNEMEYER, Meteorologist.

VOL. XXIII. HOUSTON, TEX., AUGUST, 1918. No. 8

GENERAL SUMMARY.

August was the 4th consecutive month with a marked excess of temperature and a shortage of precipitation. The average temperature excess ranged from 0.9° in the eastern division to 3.5° in the northeastern. Day temperatures were persistently high throughout the month and averaged 100° or higher on the 4th, 17th, 18th, and 19th. The nights were comparatively cool.

The dry weather during the current month was a continuation of a drought that has persisted in parts of the State for two years, April, 1918; being the only month in the last 24 when the average precipitation for the State as a whole exceeded the normal. Good rains occurred in portions of eastern and southeastern sections, and locally in west Texas, while the deficiency of precipitation was most marked in northern and central Texas. By divisions the average monthly amounts ranged from 1.04 inches in the northwestern to 4.35 inches in the eastern. A tropical disturbance that moved inland just east of the Sabine River on the 6th caused good rains along the Louisiana border, and local showers occurred daily after the 18th. A marked feature of the month was the large number of thunder storms that gave little or no precipitation.

Sunshine was excessive, except in extreme west Texas. The average for the State as a whole was 80 per cent of the possible amount.

The dry, hot weather caused further deterioration of pastures and crops. Peanuts, sweet potatoes, feed crops, and pastures were generally in poor condition at the close of August, and in the drier sections vegetation was dead. Cotton made but little growth, and shedding, premature opening, and top blooming were general. Picking and ginning made rapid progress. A fair to good cotton crop was made in some eastern and coast sections, but elsewhere the yield was poor. Rice stood the drought well and a fair to good crop was being harvested. M.S.

PRESSURE, WIND, AND SUNSHINE.

Stations.	Barometer.				Wind.				Sunshine per cent of possible
	Mean.	Highest.	Date.	Lowest.	Date.	Total movement, in miles.	Maximum velocity, Miles per hour.	Direction.	
Abilene.....	29.90	30.10	14	29.72	7	7,378	40	sw.	8 90
Amarillo.....	29.95	30.16	31	29.72	5	7,898	38	s.	7 86
Corpus Christi.....	29.99	30.13	14	29.85	6	9,383	34	se.	7 24
Dallas.....	30.00	30.19	14	29.82	30	6,652	33	se.	19 77
Del Rio.....	29.93	30.08	14	29.71	6	7,938	40	sw.	8 84
El Paso.....	29.86	30.06	24	29.70	8	6,226	45	s.	11 71
Fort Worth.....	29.92	30.15	14	29.76	30	7,887	36	se.	19 90
Galveston.....	30.02	30.18	14	29.84	6	7,186	32	n.	6 75
Groesbeck.....	29.96	30.15	14	29.83	17	7,091	38	s.	13 73
Houston.....	30.01	30.17	14	29.81	6	4,887	26	se.	7 74
Palestine.....	29.98	30.20	14	29.79	6	4,987	35	sw.	8 81
Port Arthur.....	30.01	30.18	14	29.59	6	5,354	46	nw.	6 71
San Antonio.....	29.96	30.13	14	29.79	6	5,844	35	n.	24 88
Taylor.....	30.01	30.18	14	29.83	6	5,671	38	ne.	31 76

TEMPERATURE.

The monthly mean for the State, as shown by the records of 124 stations, was 84.6° . The mean departure from the normal for 92 stations having ten or more years' record was plus 2.1° . The highest monthly mean was 90.0° at Henrietta, and the lowest, 75.1° at Clint. The highest daily temperature was 112° at Henrietta on the 18th and at Graham on the 23d, and the lowest, 47° at Dalhart on the 31st. The monthly range within the State limits was 65° , and the greatest daily range, 52° at Memphis on the 2d.

PRECIPITATION.

The average for the State, as shown by the records of 206 stations, was 1.64 inches. The mean departure from the normal for 123 stations having ten or more years' record was minus 0.73 inch. The greatest monthly amount was 7.24 inches at Woodville, while there was none at 4 stations and only a trace at 7 other stations. Excessive amounts of 2.50 inches or more in 24 consecutive hours occurred at 6 stations, the greatest being 3.85 inches at Flatonia on the 19th. The average number of days with 0.01 inch or more of precipitation was 4.

RELATIVE HUMIDITY.

Stations.	Mean.		Highest.	Date.	Lowest.	Date.	Stations.	Mean.		Highest.	Date.	Lowest.	Date.
	8 a.m.	8 p.m.						8 a.m.	8 p.m.				
Abilene.....	59	26	91	25	16	17	Galveston.....	79	71	89	2	56	16
Amarillo.....	63	43	98	7	15	1	Groesbeck.....	86	42	96	27	21	17
Corpus Christi.....	78	75	91	17†	51	2	Houston.....	86	71	91	24†	81	11
Dallas.....	73	63	95	25	20	18	Palestine.....	89	58	97	25	55	17
Del Rio.....	72	55	92	26	32	19	Port Arthur.....	87	74	99	6	54	17
El Paso.....	70	35	96	10	15	3	San Antonio.....	88	42	100	24	25	18
Fort Worth.....	72	37	88	25	22	2	Taylor.....	86	96	14†	32	1	

†Also on other dates.

COMPARATIVE DATA FOR AUGUST.

Year.	Temperature.				Precipitation.		Number of days				Prevailing direction of wind
	Mean.	Departure.	Highest.	Lowest.	Average.	Departure.	With precip. 0.01 inch or more.	Partly cloudy.	Cloudy.		
1891.....	81.2	-1.5	109	48	1.64	-0.65	4	16	12	3	se.
1892.....	80.0	-2.7	105	47	3.88	+1.59	9	11	13	7	se.
1893.....	81.4	-1.3	110	40	2.35	+0.06	9	12	7	7	se.
1894.....	79.7	-3.0	105	40	5.24	+2.95	11	6	15	10	s.
1895.....	82.8	+0.1	110	46	2.23	-0.06	7	12	14	5	s.
1896.....	84.0	+1.3	113	50	1.27	-1.02	5	16	11	4	s.
1897.....	82.2	-0.5	108	50	2.46	+0.17	5	14	10	7	s.
1898.....	81.9	-0.8	106	49	2.62	+0.33	5	14	11	6	s.
1899.....	85.7	+3.0	112	56	0.94	-1.35	2	25	21	1	s.
1900.....	81.5	-1.2	106	54	3.73	+1.44	8	14	10	7	s.
1901.....	85.2	+2.5	115	60	1.58	-0.74	4	21	6	4	se.
1902.....	86.1	+3.4	110	52	0.30	-1.99	1	26	4	1	s.
1903.....	82.1	-0.6	110	54	2.18	-0.11	5	19	8	4	s.
1904.....	81.0	-1.7	109	52	2.25	-0.04	5	17	8	6	s.
1905.....	83.6	+0.9	109	50	1.20	-1.09	3	22	6	3	s.
1906.....	80.0	-2.7	104	40	3.54	+1.25	6	14	10	7	s.
1907.....	83.9	+1.2	110	50	1.81	-0.48	4	20	8	3	s.
1908.....	81.4	-1.3	108	49	3.90	+0.71	6	17	9	5	s.
1909.....	84.2	+1.5	115	51	2.17	-0.12	5	16	9	6	s.
1910.....	85.2	+2.5	114	39	1.25	-1.04	3	17	10	4	s.
1911.....	84.1	+1.4	112	49	2.07	-0.22	4	18	8	5	s.
1912.....	83.7	+1.0	109	54	2.49	+0.20	5	17	9	5	s.
1913.....	83.9	+1.2	110	51	1.26	-1.03	4	18	9	4	s.
1914.....	81.0	-1.7	110	50	6.37	+4.55	9	11	11	9	s.
1915.....	80.2	-2.9	109	40	6.05	+4.05	8	13	11	7	s.
1916.....	82.2	-0.3	108	47	2.84	+0.42	5	15	12	4	s.
1917.....	83.9	+1.1	113	43	1.73	-0.50	4	18	10	3	s.
1918.....	84.6	+2.1	112	47	1.64	-0.73	4	19	9	3	s.

Climatological data for August, 1918.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.			Number of days.			Prevailing direction of wind.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall unmeasured.	With precipitation 0.01 inch or more.	Clear.	Partly cloudy.		
<i>Northwestern.</i>																			
Albany.....	Shackelford.....	1,429	24	87.6	+ 4.8	108	18	67	25†	37	1.45	-0.33	0.97	0	2	29	2	0	T. E. Dodge.
Amarillo.....	Potter.....	3,676	26	78.0	+ 3.4	98	2	55	31	33	2.36	-0.45	1.39	0	8	17	13	1	s. U.S. Weather Bureau.
Archer City.....	Archer.....	7									T.	0	0	0	0	0	0	0	J.W. Seals.
Aspermont.....	Stonewall.....	7									0.00	0	0.00	0	0	0	0	0	Burnet Link Co.
Bovina.....	Parmer.....	1									2.05	0	0.80	0	0	0	0	0	A.J. Bester.
Brownfield.....	Terry.....	4	80.5	9	100	30	58	24	40†	2.42	0.45	1.32	0	5	16 ^a	2 ^a	0 ^a	A.J. Stricklin.	
Canadian.....	Hemphill.....	2,333	9	82.0	104	20	53	31	39	1.10	-0.98	0.41	0	3	18	13	0	R.M. Hubbard.	
Childress.....	Childress.....	1,869	25							0.30	-1.99	0.30	0	1	6	21	9	1	C.W. Underwood.
Chillicothe.....	Hardeman.....	1,406	12							1.50	-0.90	0.45	0	6	21	12	12	Robert E. Powell.	
Clarendon.....	Douley.....	2,719	11	81.9	+ 2.6	103	20	57	31	41	1.75	-0.81	0.96	0	3	17	0	0	Agt. Ft.W. & D.C. Ry.
Claude.....	Armstrong.....	3,337	15							0.20	-1.84	0.09	0	1	26	5	0	William Lanius.	
Claytonville.....	Fisher.....	2,100	23	86.2	+ 5.1	105	10†	60	1	43	0.09	-2.64	0.00	0	0	29	1	1	A.B. Spencer.
Crosbyton.....	Crosby.....	31	81.1	+ 3.0	101	20	59	1	39	1.96	-0.53	1.58	0	6	24	6	1	R.R. Waldrop.	
Crowell.....	Foard.....	1								0.20	-1.18	0.20	0	1	22	8	1	W.H. Upchurch.	
Dalhart.....	Dallam.....	3,998	12	76.4	+ 1.6	100	2†	47	31	39	1.54	-0.74	0.62	0	4	21	0	10	C.W. Johnson.
Graham.....	Young.....	1,040	31			112	23				0.00	-2.64	0.00	0	1	1	1	1	W.J. Brains.
Hamlin.....	Jones.....	1,685	7							0.89	-1.94	0.40	0	2	19	8	4	P.D. Sanders.	
Haskell.....	Haskell.....	1,553	24	86.6	+ 2.1	104	19†	70	1†	32	0.40	-1.18	0.20	0	2	22	8	1	Agt. Ft.W. & D.C. Ry.
Jayton.....	Kent.....	4								0.42	-0.90	0.22	0	3	14	14	3	S.D. Austin.	
Lamesa.....	Dawson.....	2,500	7							1.36	-1.03	0.69	0	4	21	8	2	Geo. W. Preall.	
Lieb.....	Hutchinson.....	11	80.8	+ 4.1	102	2†	57	12	39	1.95	-0.56	0.88	0	5	23	9	0	R.E. Karper.	
Lubbock.....	Lubbock.....	7	78.2		99	30	57	1†	39	0.90	-0.74	0.24	0	8	21	8	2	J.A. Pressley.	
Memphis.....	Hall.....	2,067	9	82.4	104	19	50	2	52	0.89	-1.12	0.41	0	3	28	3	0	J.T. Cantrell.	
Miami.....	Roberts.....	2,743	15	81.5	+ 2.7	102	19	53	30	34	0.42	-1.94	0.40	0	2	24	7	0	A.E. Whittemore.
Munday.....	Knox.....	5								0.62	-1.41	0.33	0	1	24	7	0	S.J. Allen.	
Ochiltree††.....	Ochiltree.....	15								1.43	-1.41	1.07	0	2	8	0	0	C.M. Grayum.	
Paducah.....	Cottle.....	5								1.95	-0.88	0.60	0	3	25	3	3	J.Sid O'Keefe.	
Panhandle.....	Carson.....	3,450	9							1.00	-1.12	0.65	0	3	21	8	2	Texas Land & Dev. Co.	
Plainview.....	Hale.....	3,730	24	77.9	+ 1.1	101	30	58	31	39	2.32	-0.07	1.15	0	5	21	8	2	V.A. Robinson.
Post.....	Garza.....	2,700	6							1.33	-1.21	0.65	0	1	20	0	0	W.H. Crawford.	
Quanah.....	Hardeman.....	1,563	10	87.3	+ 4.8	107	18†	63	1	40	0.09	-2.05	0.09	0	1	18	12	6	E.S. Chamberlain.
Romero.....	Hartley.....	4,056	6							0.45	-1.20	0.45	0	1	24	5	2	William Wilsford.	
Snyder.....	Seury.....	7	86.4 ^a		104	19	70	31	39 ^a	0.34	0.31	0	2	14 ^a	7 ^a	6 ^a	W.J. Clemmons.		
Spur.....	Dickens.....	2,300	7	84.4 ^a	106	20	63	28	39	1.65	-0.56	0	4	0	0	0	0	W.I. Pratt.	
Stamford.....	Jones.....	5								2.67	-0.25	0.86	0	5	23	5	3	Lou Mulhall.	
Tulia.....	Swisher.....	3,501	20	79.4	+ 2.2	99	4	61	27	31	0.55	-1.25	0.43	0	2	1	0	J.D. Camp.	
Wellington.....	Collingsworth.....	1,967	5							0.45	-1.25	0.45	0	1	14	7	1	J.C. Mytinger.	
Wichita Falls.....	Wichita.....	958	15							0.57	-0.90	0.41	0	2	24	7	0	John Rudolph.	
<i>Northeastern.</i>																			
Antelope.....	Jack.....	7								0.57	-1.65	0.26	0	2	19	8	4	R.K. Rodgers.	
Arthur City.....	Lamar.....	590	26							4.21	-2.11	2.00	0	5	19 ^b	9 ^b	1 ^b	H.M. Norman.	
Bonham.....	Fannin.....	566	14	86.8	+ 3.7	108	19	65	27†	36 ^b	2.50	+0.21	1.50	0	4	24	5	2	Craig Anderson.
Bowie.....	Montague.....	1,113	23	88.6	+ 3.9	110	19	66	26	37	0.85	-1.12	0.29	0	4	21	0	0	Robert E. Boyett.
Brazos.....	Palo Pinto.....	801	9							0.08	-1.65	0.08	0	1	24	6	1	Hattie E. Byers.	
Bridgeport.....	Wise.....	754	9							0.45	-1.65	0.45	0	1	2	12	6	6	Jno. W. O'Neill.
Clarksville.....	Red River.....	442	18	84.4	+ 0.8	104	4	67	27	30	4.54	+2.04	2.09	0	4	21	4	6	U.S. Weather Bureau.
Dallas.....	Dallas.....	512	38	86.2	+ 2.6	104	19	71	27	26	2.48	-0.53	2.45	0	3	18	12	3	J.B. Steele.
Denison (near).....	Grayson.....	550	16							0.03	-3.20	0.03	0	1	0	0	0	C.H. McDowell.	
Denton.....	Denton.....	621	5	87.4		107	19	66	27	36	0.33	-1.20	0.20	0	2	24	7	0	B.M. Macon.
Finley II.....	Bowie.....	257	8							3.85	-1.58	2.00	0	2	26	0	0	U.S. Weather Bureau.	
Fort Worth.....	Tarrant.....	670	23	87.0	+ 4.1	103	19	71	27	27	0.29	-1.58	0.26	0	2	19	8	4	B.F. Mitchell.
Gainesville.....	Cooke.....	738	28	88.4	+ 5.8	108	19	66	27	37	0.24	-2.08	0.16	0	2	20	0	0	Mrs. L.A. Regan.
Greenville.....	Hunt.....	550	18	86.3	+ 1.7	106	18	68	27	33	1.00	-1.35	0.40	0	5	18	12	3	C.K. Brown.
Henrietta.....	Clay.....	915	26							1.12	-1.62	2.7	0	0	0	0	0	G.W. McCleary.	
Honey Grove.....	Fannin.....	660	1	86.7		108	18	68	31	38	1.70	-0.56	0.95	0	4	23	7	1	Tom Crow.
Index II.....	Bowie.....	294	1							3.30	-1.58	0.50	0	7	1	0	0	J.C. Kistennacher.	
Jefferson.....	Marion.....	196	5							4.25	-1.65	1.70	0	5	24	6	1	R.J. Stevens.	
Kaufman.....	Kaufman.....	448	19	87.6	+ 2.4	107	18†	71	26†	32	0.98	-1.65	0.98	0	1	24	6	1	B.J. Hubbard.
McKinney.....	Collin.....	612	16	87.4		103	18†	65	27	39	0.25	-1.72	0.25	0	1	21	10	0	E.P. Skelton.
Mount Pleasant.....	Titus.....	416	2	82.4		102	3†	67	2†	35	0.57	-1.35	1.55	0	0	15	12	4	M.W. Cheney.
Paris.....	Lamar.....	592	30	86.6	+ 4.3	109	17	67	27	37	3.13	-0.68	1.58	0	6	15	10	6	Robt. A. Miller.
Ringlo Crossing II.....	Hopkins.....	8								3.40	-1.44	0.44	0	5	24	7	0	J.F. White.	
Sherman.....	Grayson.....	745	29	87.0	+ 4.9	103	18	70	31	28	1.70	-2.67	1.0	0	0	14 ^b	16 ^b	0 ^b	R.A. Gibbs.
Weatherford.....	Parker.....	864	32	86.3	+ 3.7	104	19	67	27†	35	1.20	-2.20	1.20	0	2	28	3	0	Miss J. Stickfort.
Wills Point.....	Van Zandt.....	524	13	86.8	+ 1.7	107	18	67	27	34	1.22	-2.11	0.42	0	5	16	14	1	A.B. Swank.
Winfield (near) II.....	Franklin.....	6								3.87	-1.80	0	0	5	16	12	3	J.B. Newberry.	
<i>Western.</i>																			
Abilene.....	Taylor.....	1,738	33	86.0	+ 4.8	102	19	65	1	35	3.00	+1.03	3.00	0	2	23	7	1	U.S. Weather Bureau.
Ballinger.....	Runnels.....	1,637	22	85.2	+ 2.3	107	31	64	5†	40	0.40	-1.88	0.30	0	2	15	7	0	E.M. Eubank.
Barstow.....	Ward.....	2,573	11	81.8	+ 0.9	103	30	57	29	42	2.56	+1.25	1.00	0	7	14	0	0	F.P. Ingerson.
Big Spring.....	Howard.....	2,396	23	85.7	+ 1.9	107	18†	61	27	40	0.26	-1.15	0.15	0	2	22	9	0	B. Reagan.
Brownwood.....	Brown.....	1,342	26	86.8	+ 2.8	108	18												

Climatological data for August, 1918—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.			Number of days.			Prevailing direction of wind.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	With precipth, 0.01 inch or more.	Clear.	Partly cloudy.	Cloudy.		
<i>Central—Cont'd.</i>																				
Brenham.....	Washington.....	350	33	85.6	+ 1.6	103	18	68	13	30	1.32	-1.17	0.55	0	9	.....	s.	Mrs. B. F. Sloan. J. E. Watts.		
Cameron.....	Milan.....	9	87.4	.....	.....	108	19	67	27†	37	1.35	.....	1.02	0	4	22	4	5	s.	W. S. Ownsby.
Cleburne.....	Johnson.....	758	9	87.4	.....	.....	.....	.....	.....	.....	3.02	1.77	0	4	16	15	0	s.	R. M. Jones.	
Clifton.....	Bosque.....	671	7	.....	.....	.....	.....	.....	.....	.....	3.02	0.49	0	5	17	9	2	sw.	Prof. G. S. Fraps. W. M. Wallace.	
College Station.....	Brazos.....	308	28	85.2	+ 1.6	103	18	70	1†	32	1.01	-0.97	0	1	20	9	2	s.	Mrs. W. A. Hammett. Frank Hamilton.	
Copperas Cove.....	Coryell.....	1,092	3	.....	.....	.....	.....	.....	.....	.....	0.44	0.44	0	1	20	4	7	s.	R. L. Bush. Jno. Ryan.	
Corstrana.....	Navarro.....	445	42	85.6	+ 2.1	103	18	72	2†	30	2.12	+0.19	0.87	0	5	20	4	7	s.	R. F. Young. Jno. Corham.
Dublin.....	Erath.....	1,466	22	86.6	+ 3.1	108	19	67	27	34	0.47	-1.68	0.47	0	1	19	10	2	s.	U. S. Weather Bureau. Edwin R. Misener.
Fairland.....	Burnet.....	1,000	26	87.8	+ 4.6	109	19	68	27	39	0.50	-1.58	0.30	0	4	27	4	0	s.	Thomas E. Felder. Dr. Hallie Earle.
Gatesville.....	Coryell.....	795	14	86.4	+ 2.4	105	18	67	27	34	3.65	+1.93	0	1	.....	.....	.....	.....	s.	J. A. Eakins. C. G. Joyner.
Georgetown.....	Williamson.....	750	23	86.4	+ 1.9	106	18	67	25	36	0.29	-0.92	0.12	0	3	20	10	1	s.	C. H. Read. W. Y. Barr.
Gorham II.....	McLennan.....	444	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	s.	Effie M. Johnson.
Groesbeck.....	Limestone.....	461	0	84.4	.....	102	3	68	27	30	0.46	.....	0.35	0	5	15	14	2	s.	Mrs. K. I. Webber. Geo. W. Ellis.
Hamilton.....	Hamilton.....	254	14	.....	.....	.....	.....	.....	.....	.....	0.24	0.20	0	2	.....	.....	.....	.....	s.	Glenn Crain.
Hempstead.....	Waller.....	664	23	.....	.....	106	18†	66	27	36	0.36	0.70	-0.83	0	2	26	3	2	s.	M. M. Berry.
Hewitt.....	McLennan.....	6	86.8	.....	.....	.....	.....	.....	.....	.....	0.20	0	2	13	9	9	0	s.	Isidore Newman. Clarence Moore.	
Hico.....	Hamilton.....	2	87.2	.....	.....	107	18	69	26†	33	1.55	+0.21	1.00	0	4	20	11	0	s.	U. S. Weather Bureau. K. D. Blankenship.
Highbank.....	Falls.....	628	15	87.2	+ 2.5	107	18	69	26†	33	1.55	+0.21	1.00	0	4	20	11	0	s.	Mrs. C. W. Higdon.
Hillsboro.....	Hill.....	400	34	82.6	- 0.7	99	11†	66	6†	31	5.10	+2.86	2.00	0	6	.....	.....	.....	s.	L. M. Crockett.
Kopperl.....	Bosque.....	576	21	.....	.....	.....	.....	.....	.....	.....	1.18	-0.67	0.98	0	2	22	6	3	s.	Ed Beckman.
Lampasas.....	Lampasas.....	1,026	26	87.6	+ 4.4	108	18	67	27†	37	0.30	-1.41	0.20	0	4	30	1	0	s.	Ed. Herbst.
Long Lake II.....	Anderdon.....	240	12	.....	.....	.....	.....	.....	.....	.....	3.78	+1.32	1.65	0	3	28	2	1	s.	W. H. Frey.
McGregor.....	McLennan.....	771	9	.....	.....	.....	.....	.....	.....	.....	0.28	0	2	1	28	2	1	s.	U. S. Weather Bureau. H. M. Brown.	
Marble Falls.....	Burnet.....	537	14	85.5	+ 1.4	105	2†	70	6†	34	1.62	-0.24	0.84	0	5	8	20	3	w.	W. Goodrich Jones.
Mexia.....	Limestone.....	216	2	.....	.....	.....	.....	.....	.....	.....	2.98	2.10	0	5	11	10	2	s.	Lee Scott.	
Navasota.....	Grimes.....	510	36	83.8	+ 3.3	102	18	66	3†	26	2.41	+0.19	1.06	0	9	16	5	10	se.	Mary Hofmann.
Palestine.....	Anderson.....	2	83.8	.....	.....	108	18	68	6†	37	3.21	+2.77	2.33	0	11	19	10	2	se.	Mack Dunkin.
Ratekin.....	Houston.....	169	14	83.8	.....	.....	.....	.....	.....	.....	4.53	1.79	0	1	14	3	14	4	s.	W. S. Hotchkiss.
Riverside.....	Walker.....	8	.....	.....	.....	.....	.....	.....	.....	.....	0.10	0	1	25	5	1	se.	S. W. Baker.		
Salado.....	Bell.....	201	6	.....	.....	.....	.....	.....	.....	.....	3.89	0.88	0	13	0	20*	6*	e.	T. J. Hicks.	
Sealy.....	Burleson.....	251	9	85.0	.....	102	18	65	2	36	1.65	.....	0.52	0	5	22	6	3	s.	F. C. C. Carter.
Somerville.....	Erath.....	1233	0	.....	.....	108	18	68	6†	37	0.55	0	2	32	0	2	se.	M. Kangerga.		
Stephenville.....	Williamson.....	583	17	85.0	+ 3.3	100	18	68	26	28	0.17	-2.30	0.11	0	3	11	15	5	se.	C. A. Propst.
Taylor.....	Bell.....	630	32	87.7	+ 4.5	105	19	69	26	28	0.15	-1.64	0.10	0	2	25	5	1	se.	T. A. King.
Thurber.....	.....	6	.....	.....	.....	.....	.....	.....	.....	0.41	0	0	3	0	30	1	1	s.	Lee Scott.	
Trinidad.....	Henderson.....	317	2	.....	.....	.....	.....	.....	.....	0.43	0	0	3	14	11	6	se.	M. Hofmann.		
Valley Junction.....	Robertson.....	289	18	.....	.....	104	19	71	29	28	0.85	-1.04	0.40	0	3	19	11	1	s.	W. A. Howell.
Waco.....	McLennan.....	424	37	88.2	+ 3.0	104	19	71	29	28	0.72	-1.88	0.37	0	3	21	0	0	s.	A. E. Howell.
Waxahachie.....	Ellis.....	556	21	86.6	+ 2.2	107	19	66	27	34	0.15	-1.83	0.15	0	1	31	0	0	s.	W. A. Ownby.
<i>Eastern.</i>																				
Dialville.....	Cherokee.....	575	14	83.4	+ 0.9	104	18	67	2†	35	5.90	+2.77	1.90	0	6	.....	.....	.....	s.	Post Surgeon.
Flint.....	Smith.....	483	8	82.6	.....	104	4	67	31	35	5.61	.....	2.58	0	6	19	6	6	s.	Fred Morris.
Henderson.....	Rusk.....	500	3	.....	.....	.....	.....	.....	.....	.....	6.30	1.20	0	10	16	6	9	s.	J. B. Strait.	
Loueville.....	Gregg.....	336	32	83.8	+ 0.8	101	3	68	28	28	2.84	+0.53	1.83	0	8	.....	.....	.....	s.	R. C. Crist.
Luken.....	Angelina.....	325	11	84.1	+ 0.3	105	17	68	6†	35	2.12	-1.02	0.85	0	7	15	4	12	s.	F. W. Schewpke.
Marshall.....	Harrison.....	375	17	82.8	+ 0.8	104	3†	65	6†	35	3.74	+0.81	2.32	0	9	0	30	1	s.	Mrs. Sophie Bridge.
Nacogdoches.....	Nacogdoches.....	271	19	84.2*	+ 2.4	105	16	65	6	36	3.31	+1.08	1.07	0	8	14	11	6	s.	H. R. Frobese.
Rockland.....	Tyler.....	136	14	.....	.....	101	4†	67	31	30	2.70	-0.04	0.95	0	8	24	0	7	s.	M. A. Keller.
Troup.....	Smith.....	467	5	83.2	.....	101	4†	67	31	30	3.78	-0.27	1.42	0	7	15	13	3	s.	M. H. Breiningher.
Woodville.....	Tyler.....	1	81.5	.....	.....	100	18†	67	2†	32	7.24	0	2.52	0	9	0	30	1	s.	Charles Tarver.
Austin.....	Travis.....	593	62	85.9	+ 2.3	101	19	69	26	28	0.58	-1.71	0.47	0	5	16	12	3	se.	Charles Guerrero.
Big Wells.....	Dimmit.....	2	.....	.....	.....	.....	.....	.....	.....	.....	0.20	0	0	2	22	0	11	0	s.	W. A. Gardner.
Blanco.....	Blanco.....	1,350	22	86.0	+ 3.2	104	19†	63	26	33	1.40	-0.30	0.63	0	4	21	10	0	s.	F. W. Laux.
Boerne.....	Kendall.....	1,412	26	81.9	+ 0.8	101	22	63	2	34	1.27	-0.65	0.68	0	4	22	7	2	s.	P. S. Houston.
Colombus.....	Colorado.....	206	14	.....	.....	103	18	68	2	31	3.11	+1.61	0.86	0	9	24	0	7	s.	G. W. Warmack.
Cuero.....	De Witt.....	177	28	86.2	+ 1.0	103	18	68	2	31	2.95	+1.09	2.09	0	7	25	5	1	s.	F. H. Knipling.
Del Rio.....	Valverde.....	952	12	85.4	+ 1.2	99	19	69	26	28	0.28	-2.27	0.21	0	4	25	5	1	s.	John M. Johnson.
Devine.....	Frio.....	653	5	87.8	.....	102	1†	73	2†	28	0.67	0	0	1	2	20	11	0	s.	French Simpson.
Dilley.....	Maverick.....	800	41	87.6	+ 0.5	102	9†	70	1†	31	0.29	-2.15	0.24	0	3	22	7	2	e.	Henry Edds.
Eagle Pass.....	La Salle.....	558	18	87.4	.....	106	22	65	1	38	0.11	-1.51	0.06	0	2	19	0	0	s.	Dorothy M. Hill.
Encinal.....	Brooks.....	11	85.7	- 0.2	0.4	104	18†	70	1†	34	2.58	+0.07	2.23	0	4	12	19	0	s.	C. S. Young.
Falfurrias.....	Fayette.....	465	11	86.0	+ 1.6	103	17†	68	14	32	3.85	+0.45	3.85	0	1	21	8	2	s.	W. Davis Horne.
Floresville.....	Wilson.....	393	2	86.0	.....	104	18	68	7†	28	0.04	-1.76	0.04	0	1	30	0	1	e.	August Hermes.
Foy Clark II.....	Kinney.....	1,050	47	85.4	+ 1.4	100	18	68	7†	28	0.04	-1.76	0.04	0	1	20	6	5	se.	W. H. Withington.
Foy McIntosh II.....	Webb.....	460	50	84.4	+ 2.6	105	13	60	11†	45	1.15	-1.37	1.00	0	3	20	6	5	se.	Do.
Fowlerton.....	La Salle.....	3	.....	.....														

Climatological data for August, 1918—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.				Number of days.			Observers.	
				Mean.	Departure from the normal.	Highest Date.	Lowest Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall uncorrected.	With precipitation 0.01 inch or more.	Partly cloudy.	Cloudy.	Prevailing direction of wind.		
<i>Coast—Cont'd.</i>																		
Austwell.....	Refugio.....	8	24	85.0	+ 2.6	99	17†	70	6	22	2.40	.....	1.35	0	4	7	16	W. H. Gisler.
Beaumont.....	Jefferson.....	29	22	85.0	0.0	100	17†	66	1	29	7.07	+2.62	2.15	0	9	7	8	John Bender.
Beeville.....	Bee.....	225	20	85.0	+ 0.2	96	17	70	2†	26	1.09	-1.13	0.63	0	6	1	13	Geo. E. Faupel.
Brazoria.....	Brazoria.....	25	29	81.6	+ 0.2	98	29	68	4†	26	5.56	+0.86	1.07	0	15	21	8	Mrs. M. A. Stevens.
Brighton.....	Nueces.....	12	23	82.7	- 0.7	98	29	68	T	26	1.44	-T.	0	0	25	6	G. H. Ritter.	
Brownsville.....	Cameron.....	38	46	85.7	+ 1.9	100	28	68	1	26	0.40	-2.33	0.14	0	4	4	3	U. S. Weather Bureau.
Corpus Christi.....	Nueces.....	20	46	82.8	+ 0.7	91	19	75	2	14	0.15	-2.13	0.09	0	3	18	10	Do.
Daneyang.....	Wharton.....	145	31	84.0	0.0	100	18	67	1	30	1.92	-1.03	1.10	0	4	28	3	H. P. Hermansen.
Edua.....	Jackson.....	71	9	.....	.....	.....	.....	.....	.....	.....	3.81	.....	1.12	0	5	5	0	E. L. Fairies.
Galveston.....	Galveston.....	69	47	82.7	+ 0.1	90	18	71	2	15	3.04	-1.97	1.86	0	8	8	16	U. S. Weather Bureau.
Goliad.....	Goliad.....	164	5	.....	.....	.....	.....	.....	.....	.....	0.96	.....	0.25	0	5	5	0	W. E. Campbell.
Hitchcock.....	Galveston.....	20	1	81.0	.....	94	4†	69	17	25	2.43	-2.43	0.45	0	14	9	15	Alfred Henckel.
Houston.....	Harris.....	138	28	83.7	+ 0.9	98	4	69	31	24	1.68	-2.49	0.71	0	9	10	14	U. S. Weather Bureau.
La Parra II.....	Willacy.....	38	16	.....	.....	.....	.....	.....	.....	.....	1.10	-0.64	0.60	0	2	2	0	John G. Kennedy.
Laureles Ranch II.....	Kleberg.....	16	.....	.....	.....	.....	.....	.....	.....	.....	0.90	-1.89	0.00	0	0	0	0	Matt Cody.
Liberty.....	Liberty.....	38	14	85.5	+ 3.0	102	4	73	26	20	2.66	-0.33	0.75	0	9	9	20	e. Mrs. Fannie Sneed.
Matagorda.....	Matagorda.....	12	8	.....	.....	.....	.....	.....	.....	.....	2.21	.....	0.70	0	6	6	0	W. E. McNabb.
Mathis.....	San Patricio.....	1	3	84.6	.....	100	18†	70	23†	30	0.97	.....	0.40	0	4	1	29	A. B. Butler.
Mercedes.....	Hidalgo.....	68	3	.....	.....	.....	.....	.....	.....	.....	6.56	+0.48	3.05	0	5	5	0	Rio Grande L. & I. Co.
Mont Belvieu.....	Chambers.....	65	8	.....	.....	.....	.....	.....	.....	.....	4.97	+1.53	1.03	0	12	12	12	A. R. Shearer.
Orange.....	Orange.....	10	.....	.....	.....	.....	.....	.....	.....	.....	5.42	.....	1.80	0	12	12	14	E. W. Anderson.
Pierce.....	Wharton.....	102	12	83.7	+ 1.5	100	4	68	2	28	4.97	.....	0.03	0	12	12	14	K. B. Poluter.
Port Arthur.....	Jefferson.....	34	5	81.2	.....	94	17	69	21	21	5.42	.....	1.80	0	12	12	14	U. S. Weather Bureau.
Port Lavaca.....	Calhoun.....	20	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. H. Bickford.	
Raymondville.....	Cameron.....	6	86.2	.....	.....	103	22	71	3†	30	0.74	.....	0.27	0	6	18	13	C. H. Pease.
Ricardo.....	Kleberg.....	57	9	84.4	.....	100	17†	70	1†	30	0.71	.....	0.40	0	3	16	13	J. S. Lehman.
Rosenberg.....	Fort Bend.....	108	3	.....	.....	.....	.....	.....	.....	.....	3.13	.....	0.90	0	8	8	0	W. J. Meininger.
Santa Gertrudes II.....	Kleberg.....	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	J. B. Wright, Jr.	
Sugarland.....	Fort Bend.....	79	17	83.5	+ 0.6	100	18	68	17	30†	2.00	-1.51	0.94	0	3	27†	0†	Paul C. Rudat.
Victoria.....	Victoria.....	187	23	86.2	+ 1.6	103	17†	70	8†	29	1.25	-1.33	0.66	0	3	28	3	C. C. Zirjacks.
Woodsboro.....	Refugio.....	2	.....	.....	.....	.....	.....	.....	.....	.....	1.38	.....	1.38	0	1	1	0	T. W. Terry.
For the State.....	.....	.....	.....	84.6	+ 2.1	112	18†	47	31	52	1.64	-0.73	3.85	0	4	19	9	s.

The departures from normal temperature and precipitation are computed only for such stations as have ten or more years of record, but all complete reports are used in determining section or division means.

Reference letters, a, b, c, appearing in the table indicate number of days missing; for example, b represents two days, etc.

[†]Also on other dates. ^{††}Received too late to be included in means and summaries. ^{**}Temperature data are from observed readings of the dry bulb; means are computed from observed readings. ^{†††}Post-office address stated at end of "duplicity" table. T. Precipitation is less than 0.01 inch rain or melted snow.

Daily precipitation for August, 1918.

Daily precipitation for August, 1918—Continued.

Daily precipitation for August, 1918—Continued.

(For reference notes, see top of page 96.)

Daily temperatures for August, 1918.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean
<i>Northwestern.</i>																																
Albany §§.....	103	104	103	102	100	103	103	102	103	99	100	98	99	103	104	106	108	107	103	106	106	90	94	96	100	104	103	102	99	101.8*		
Maximum.....	69	73	72	80	76	73	75	73	71	76	76	75	73	78	74	77	79	78	74	74	77	71	69	67	67	70	76	72	70	73.4		
Minimum.....	61	65	64	63	74	71	69	70	70	70	71	69	70	67	65	68	73	69	72	68	66	66	61	60	64	63	63	60	64	66.1*		
Amarillo.....	96	98	98	94	96	92	87	78	87	89	91	88	85	87	88	91	89	92	96	96	93	90	85	92	92	93	97	93	94	84.91		
Maximum.....	65	65	67	68	70	66	62	64	65	67	67	64	64	66	65	67	66	66	65	64	66	64	64	66	64	66	65	65	65.0			
Brownfield.....	98	96	95	96	97	96	97	96	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92		
Minimum.....	67	58	73	79	76	73	79	76	73	76	76	75	73	78	74	77	79	78	74	74	77	71	69	66	66	70	67	59	63	58	60	
Canadian §§.....	95	98	102	101	99	68	99	85	93	85	100	99	67	94	94	97	100	101	100	104	101	99	98	88	92	95	97	101	102	87	97.2	
Maximum.....	61	65	64	63	74	71	69	70	70	70	71	69	70	67	65	68	73	69	72	68	66	66	61	60	64	63	63	60	64	63	66.9	
Clarendon §§.....	98	101	102	101	100	99	101	88	92	96	98	99	96	94	90	97	101	102	100	103	101	102	96	90	93	95	99	103	99	99	96	97.7
Maximum.....	68	60	67	77	78	66	60	67	70	69	67	64	64	66	65	67	64	64	66	65	62	62	62	62	62	62	62	62	61	61.1*		
Claytonville.....	103	103	104	101	100	103	102	102	104	105	103	104	104	104	103	104	104	105	103	104	105	103	103	104	104	104	104	104	104	102.1		
Minimum.....	60	73	70	71	69	63	67	69	67	70	70	71	69	67	64	65	65	67	64	64	71	70	67	71	70	71	70	71	70	72.0		
Crosbyton.....	98	99	98	96	98	95	98	92	92	94	96	95	91	86	88	94	95	97	98	101	99	97	96	95	90	90	94	96	98	96.1		
Dalhart §§.....	98	100	99	96	100	92	82	85	88	91	92	91	87	89	87	90	92	93	97	96	96	90	96	91	95	86	91	91	91.7*			
Maximum.....	63	65	62	68	65	64	64	65	65	63	60	61	63	61	63	61	63	61	63	62	63	58	57	57	60	57	47	57	47	61.1		
Haskell §§.....	102	101	101	101	100	100	100	100	99	101	101	101	98	97	97	100	101	100	104	102	102	103	99	94	96	96	102	101	101	99.9		
Maximum.....	70	70	72	72	76	76	74	74	77	77	75	76	75	74	75	75	76	75	76	72	72	70	70	71	71	71	71	71	73.7			
Lubbock.....	94	98	96	95	96	95	96	95	96	95	96	95	92	94	94	96	97	96	96	97	97	99	98	96	95	93	95	93.5				
Minimum.....	57	59	63	65	67	70	64	66	62	64	63	67	60	62	61	66	66	64	68	65	67	60	61	59	61	68	58	63.0				
Miami.....	96	97	95	96	95	96	95	96	97	95	96	95	90	94	94	97	99	100	102	101	100	101	100	99	99	98	96	96	95.3*			
Minimum.....	66	69	70	64	73	70	68	69	71	72	73	71	72	69	71	72	69	70	71	67	66	61	66	61	66	61	65	63	67.7			
Plainview.....	99	100	98	98	97	95	97	94	90	93	94	93	92	91	84	89	93	92	97	97	96	96	96	96	96	96	96	96	96	91.4		
Maximum.....	60	65	60	61	69	71	66	63	65	67	65	66	64	62	67	67	66	69	66	66	61	65	65	64	64	64	64	64	64	64.4		
Quanah §§.....	103	105	104	104	102	101	101	100	103	103	101	100	96	100	101	100	105	107	107	104	105	104	100	99	97	100	105	104	89.10.0			
Maximum.....	63	66	74	72	75	74	75	72	74	76	76	71	74	75	75	76	77	78	76	76	76	70	69	67	69	70	67	66	67.6			
Spur §§.....	103	104	104	102	102	102	103	99	103	97	100	101	99	96	94	97	100	102	104	103	102	105	102	105	102	105	102	95	99.9*			
Maximum.....	65	65	68	71	71	70	73	68	69	69	69	70	70	70	71	72	73	67	68	64	65	65	69	66	69	66	69	66.9*				
Tulia.....	96	95	97	99	97	98	95	96	94	90	92	91	93	91	90	92	93	96	95	96	96	92	91	92	95	90	92	94	93.7			
Minimum.....	65	67	69	68	69	67	65	65	66	62	65	64	65	66	65	66	67	62	63	63	63	65	61	64	66	63	64	65.0				
<i>Northeastern.</i>																																
Bonham §§.....	103	104	107	103	100	106	103	104	106	104	104	100	97	101	104	106	104	98	92	88	91	94	96	98	95	98	98	104	101.0*			
Maximum.....	74	75	76	74	74	76	76	76	77	74	71	73	71	73	74	73	73	74	73	73	71	68	65	65	63	71	75	69	72.7*			
Bowie.....	104	106	107	105	104	107	105	105	106	106	104	104	102	103	105	108	107	107	105	104	106	104	105	104	104	105	104	104	103.5			
Maximum.....	86	73	72	75	76	69	70	79	76	75	75	75	75	74	75	75	73	74	73	74	73	70	66	70	69	70	69	70	69	73.7		
Clarksville.....	99	101	103	104	100	100	93	94	97	99	98	95	94	93	99	99	100	102	101	95	94	90	91	94	95	93	96	95	96.6			
Minimum.....	71	71	76	75	78	73	71	75	74	75	76	75	74	75	74	75	74	75	74	73	73	67	68	68	68	68	68	68	68	68.3		
Dallas.....	98	100	98	97	95	95	99	98	98	98	98	96	95	95	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96.6		
Maximum.....	76	74	75	81	78	78	77	78	76	79	79	78	77	78	77	77	77	77	77	77	77	75	75	75	75	75	75	75	75	75.8		
Denton.....	102	104	103	104	101	101	100	103	102	100	101	101	100	101	100	101	100	101	100	101	100	101	100	101	100	101	100	101.0				
Minimum.....	69	73	73	78	73	71	78	73	71	78	74	77	74	76	77	75	76	77	74	75	76	71	66	71	74	71	73	72	73.9			
Fort Worth.....	98	100	98	100	97	97	95	100	99	99	98	98	95	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96	97.7		
Minimum.....	76	76	80	75	77	77	76	78	78	78	78	77	77	78	78	77	77	77	77	77	77	76	76	76	76	76	76	76	76	76.2		
Gainesville.....	104	106	105	106	103	101	101	103	100	102	103	100	102	103	100	102	104	105	106	105	103	104	105	104	105	104	105	104	104.10.5			
Maximum.....	69	73	72	73	72	72	71	76	75	74	74	75	74	75	74	75	74	75	74	75	74	75	74	75	74	75	74	75	74.3*			
Greenville §§.....	101	103	102	10																												

Daily temperatures for August, 1918—Continued.

Stations.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Mean	
<i>Central—Continued.</i>																																	
Hico.....	102	102	100	102	99	99	102	101	101	100	100	99	97	99	101	102	106	106	102	103	104	101	97	91	98	96	102	101	101	102	100.5		
	Minimum.....	68	73	71	76	76	72	73	76	74	73	76	74	70	70	73	74	70	75	76	73	74	72	67	66	73	74	74	76	73	0		
Hillsboro §§.....	103	103	100	104	101	99	102	102	102	101	101	100	101	101	101	102	105	107	106	100	104	100	100	99	86	96	95	99	100	103	95	100.6	
	Minimum.....	73	73	73	73	76	74	70	76	75	75	78	78	74	74	75	75	74	76	74	73	73	69	69	69	73	74	73	73	73	73		
Huntsville §§.....					97	96	91	96	94	86	97	97	99	94	94	96	98	97	99	96	97	92	90	91	85	88	89	93	94	92	87	93.8	
	Minimum.....	71	68	74	74	74	66	66	74	74	73	72	72	72	73	74	72	74	71	71	73	72	71	73	69	69	72	73	71	74	71	74	
Lampasas §§.....	107	103	103	102	102	103	103	102	102	103	103	102	102	100	101	102	105	108	107	104	103	106	102	100	97	101	103	102	104	102	99	102.7	
	Minimum.....	73	72	71	69	75	74	71	77	76	74	74	76	76	69	69	73	72	70	69	74	76	75	73	71	68	67	67	72	75	73	72	
Mexia §§.....	104	105	98	102	99	96	99	100	99	101	99	101	95	98	98	101	102	105	105	97	98	95	97	93	87	86	97	98	100	99	88	98.3	
	Minimum.....	73	72	72	72	74	70	70	70	76	73	73	76	72	72	73	73	71	71	73	72	74	75	76	74	70	70	72	73	72	72		
Palestine.....					98	99	97	99	96	88	95	96	97	97	96	91	94	98	99	102	100	94	94	91	87	90	91	94	95	96	94.4		
	Minimum.....	76	74	72	75	75	69	74	73	74	74	75	70	71	75	74	76	72	73	75	75	74	72	72	71	74	74	73	73	73	73		
Taylor.....					99	96	99	99	95	98	98	96	94	94	94	97	98	99	100	100	96	98	99	92	90	95	96	98	97	95	96.4		
Temple §§.....	104	101	100	103	103	100	101	100	100	99	100	99	98	100	99	99	98	101	104	105	100	102	103	100	90	94	97	99	100	100	99	100.2	
	Minimum.....	76	74	74	75	76	74	77	78	76	75	76	76	73	74	75	76	77	77	78	77	76	74	76	74	69	70	73	75	75	75		
Waco §§.....	101	101	100	101	98	99	101	100	100	99	99	98	97	99	99	99	101	102	104	99	100	100	98	95	85	93	95	98	99	91	98.4		
	Minimum.....	77	78	77	77	82	78	78	80	80	80	81	81	78	78	77	79	78	83	78	81	76	78	78	73	74	71	71	78	79	78.0		
<i>Eastern.</i>																																	
Dialville.....	199	101	101	103	100	89	95	95	96	97	96	93	91	97	95	99	101	104	102	94	94	91	93	97	91	91	92	93	99	98	89	96.0	
	Minimum.....	69	67	69	71	72	77	75	76	71	73	72	73	72	70	71	76	69	70	71	74	73	73	71	67	69	71	71	69	71	70	71	
Flint.....					96	90	100	104	94	90	88	84	91	100	106	82	82	97	98	100	103	95	95	89	80	90	90	94	95	95	93	93	
Longview §§.....					69	70	73	75	70	68	70	75	73	74	74	72	71	74	73	76	75	74	72	71	69	71	70	72	72	72	73	72	
	Minimum.....	92	99	101	100	97	95	85	92	98	98	95	91	89	95	99	100	95	99	103	100	94	94	90	89	90	90	98	96	90	93.6*		
Lufkin.....					100	103	101	104	101	99	97	98	98	100	100	95	96	90	90	100	102	105	104	97	95	88	85	89	90	90	95	96	98.8
Marshall.....					100	102	104	104	100	94	93	95	96	94	93	95	97	98	101	102	100	102	102	101	97	89	88	91	86	90	90	94	89.8
Nacogdoches §§.....					99	99	99	103	98	89	89	99	99	98	93	94	95	102	105	103	99	97	84	85	90	92	93	92	95	96	81	98.9b	
	Minimum.....	71	68	69	70	71	65	66	70	69	70	71	72	72	70	70	69	69	68	72	71	71	70	67	67	68	69	69	69	69	69.5		
<i>Southwestern.</i>																																	
Austin.....	100	97	97	99	96	96	98	96	95	99	97	96	96	94	98	97	99	100	101	96	98	93	95	97	98	96	98	97	98	97.5			
	Minimum.....	72	71	74	74	72	76	79	77	74	73	74	73	76	72	70	71	74	73	75	76	75	76	71	73	74	73	74	73	74	73	74.3	
Blanco §§.....					101	100	96	98	98	100	100	100	99	100	100	98	98	100	100	100	100	100	100	100	99	100	100	99	100	99	100	99.9	
	Minimum.....	75	76	76	73	74	75	74	75	74	72	73	74	73	74	72	71	75	74	75	76	75	76	74	75	73	74	75	73	74	73		
Cuero §§.....					100	98	100	99	99	100	100	101	101	100	100	100	100	101	101	101	102	102	102	101	101	101	101	101	101	101	101	100.3	
	Minimum.....	71	68	69	72	72	73	74	72	70	74	74	75	72	72	73	72	73	75	76	75	76	75	76	75	76	75	76	75	76	75		
Del Rio.....					98	95	93	94	95	95	97	96	96	94	96	95	96	94	95	96	97	96	97	96	96	97	96	97	96	98	97.5		
	Minimum.....	70	73	75	75	76	75	74	73	74	74	75	76	75	76	74	75	76	77	76	77	77	76	77	76	77	76	77	75	76	75		
Eagle Pass.....					101	97	95	99	100	101	101	101	100	100	100	100	101	101	101	101	101	102	102	102	101	101	101	101	101	101	101	100.9	
	Minimum.....	93	92	94	98	98	98	99	101	99	96	97	98	97	102	103	104	99	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
Falfurrias §§.....					101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
	Minimum.....	70	70	71	72	72	72	74	75	74	71	74	74	72	72	71	71	72	71	72	73	72	71	72	71	72	71	72	71	72	71	72	
Flatonia.....					70	78	70	70	69	71	70	72	70	72	72	68	72	70	72	71	72	73	71	76	70	69	73	71	76	71	76	71	76
Hallettsville.....					95	96	96	97	95	96	98	98	100	98	96	97	94	98	99	99	100	97	97	98	97	96	95	96	97	97	96	95	97.1
	Minimum.....	73	73	75	75	76	75	79	75	75	77	76	76	79	73	75	74	76	79	77	77	78	77	78	75	76	75	76	75	76	75	76	
Hill's Ranch §§.....					104	100	99	100	97	98	100</td																						

Notes for daily precipitation tables. See pages 90, 91, and 92.

Except as otherwise indicated observations are generally made late in the afternoon, near sunset, and precipitation recorded is for the 24 hours ending at time of observation.

*** Regular Weather Bureau station; precipitation is for the 24-hour period, midnight to midnight.

†† Precipitation measured in the morning; amount then recorded is for the preceding 24 hours. * Precipitation included in the next following measurement. † Separate dates of falls not recorded. T Trace, or less than 0.01 inch.

†† Post-office addresses of these stations are as follows: Finley, Brownstown; Index, Texarkana; Ringo Crossing, Sulphur Bluff; Winfield (near), Mount Vernon; O 2 Ranch, Alpine; Gorham, Waco; Long Lake, Oakwood; Fort Clark, Brackettville; Fort McIntosh, Laredo; Hill's Ranch, Austin; La Parra, Sarita; Laureles Ranch and Santa Gertrudes, Kingsville.

Daily Evaporation (inches) and Wind Movement (miles) for August, 1918.

(See temperature and precipitation data in Climatological Tables, pages 89, 92, and 94.)

Stations.	Data.	Day of month.																													Monthly.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Hill's Ranch†....	Evaporation	.406	.337	.401	.359	.364	.391	.402	.364	.197	.404	.381	.384	.297	.257	.258	.321	.301	.463	.293	.348	.345	.348	.448	.353	.310	.100	.320	.198	.338	.315	.252	10.255
	Floating pan	.333	.257	.339	.175	.445	.286	.350	.303	.221	.327	*	.601	.241	.245	.223	.265	.204	.377	.433	.185	.286	.290	.315	.314	.224	.101	.248	.164	.246	.264	.281	8.533
Laredo †.....	Wind movmt.	.60	.49	.38	.61	1.113	.12	.113	...	.68	.61	.45	.48	.59	.58	.41	.47	.48	.46	.48	.42	.51	.31	.98	.55	.55	.25	.47	.40	.38	.88	.107	.....

Observations taken at 8 a. m. 10 Observations taken at 7 a. m. * Included in next measurement.

MISCELLANEOUS PHENOMENA (WITH DATES).

Thunderstorms (number of stations reporting): 1st, 4; 2d, 3; 4th, 1; 5th, 6; 6th, 3; 7th, 6; 8th, 8; 9th, 1; 11th, 2; 12th, 7; 13th, 17; 14th, 8; 15th, 6; 16th, 3; 18th, 1; 19th, 10; 20th, 5; 21st, 9; 22d, 13; 23d, 14; 24th, 20; 25th, 18; 26th, 8; 27th, 5; 28th, 4; 29th, 4; 30th, 1; 31st, 10.

Halos, Solar: 1, 6, 7, 8, 21, 22, 28, and 30.

Halos, Lunar: 19, 20, and 21.

Hail, Light (no material damage): Denton, 31.

OBSERVER'S REMARKS.

Archer City: There was no rain at all here, but a few local showers in some parts of the county. Cotton is almost a failure.

Aspermont: The whole month was hot and dry. Grass and crops have burned up.

Bovina: Grass and row crops are fine over a 20 mile area. The rains have been very local.

Brownfield: Terry County is probably in the best shape for feed and grass of any county in west Texas. Four-fifths of the county will make good crops.

Lubbock: The month continued dry. Rainfall was light, but local showers in small portions of the county were of great benefit. Crop conditions as a whole are poor, and stock conditions bad.

Memphis: Rain is badly needed and crops will be almost a total failure unless rain falls in a few days.

Paducah: August was hot and dry, with hot high winds from the southwest on 20 days. All crops are almost a total failure. A few farms in deep sand have good crops, but only about 2 per cent of the farms have crops on them.

Post: The showers were all local, not covering more than two or three sections.

Bowie: The month was dry and hot, but a few showers during the latter part will help cotton and June corn. All other crops were burned up by the hot, dry weather.

Denton: The month was characterized by clear days and hot winds. Cotton has suffered for the lack of rain, and is yielding from one-eighth to one-tenth of a bale per acre.

Wills Point: August was a very hot and dry month. The cotton crop was cut 50 per cent by dry weather and hot winds.

Big Spring: A big rain 6 miles south of town filled the lake west of town.

O 2 Ranch: There were no hot winds. The month closed with the range near station in better shape than for three years.

Georgetown: The month has been very dry. Stock is suffering for pasture and water, and the small streams are going dry. In the last two years the precipitation has not reached the average for one year.

Hamilton: It was an extremely hot and dry month. Crops in this county are nearly a total failure.

Highbank: There was not enough rain to register in gage. Cotton is about all picked in this part of the country. There will be but little top crop.

Flatonia: A very severe wind and electrical storm occurred on the 19th about 6:30 p. m., causing considerable damage to shade trees and out buildings.

Kerrville: The rains of the 25-26th will be worth a great deal to the ranchmen, but came too late to be of any benefit to farm crops.

Lagrange: A number of farmers are through picking cotton, with the exception of a little scraping. The rain of the 24-25th was not general, but those that did get the benefit of it have planted some vegetables and forage crops, such as sugar cane and Sudan grass.

RIVER CONDITIONS.

Slight rises occurred in the Rio Grande, Trinity and Sabine rivers during the last decade. The other Texas streams were low throughout the month.

The following table shows the highest, lowest, and mean stages recorded at the various river stations during the month:

	Flood stage.	Highest.	Date.	Lowest.	Date.	Mean
<i>Rio Grande:</i>						
Eagle Pass	16	5.6	23	1.1	6†	2.9
Laredo	27	4.9	26	0.7	9†	0.7
Rio Grande	15	6.0	27†	1.5	20†	3.3
Mission	24	.....	.....	.....	.....	.....
<i>Gundalope:</i>						
Gonzales	22	1.1	30	0.4	14†	0.1
Victoria	16	- 1.1	18	- 2.6	25	- 2.0
<i>Colorado:</i>						
Ballinger	28	2.0	29	- 1.0	18†	- 0.2
Marble Falls	32	3.2	26	- 1.2	19†	- 0.3
Austin	18	1.4	30	- 0.1	10	0.2
Columbus	28	6.0	1†	5.1	31	5.5
<i>Brazos:</i>						
Brazos	22	0.5	1†	0.0	12†	0.1
Kopperl	21	1.0	1†	- 0.6	22†	0.3
Waco	27	4.6	1	3.8	18†	4.1
Valley Junction	40	1.0	1†	0.5	29†	0.7
Washington	45	4.0	1†	3.3	17†	3.5
Hempstead	40	- 2.4	1†	- 3.3	31	- 2.9
Rosenberg	39	2.2	11†	2.0	1†	2.1
<i>Trinity:</i>						
Bridgeport	20	2.6	24	- 1.6	20†	0.1
Fort Worth	20	6.3	19†	5.0	5	6.0
Dallas	25	10.8	24	3.7	30†	8.6
Trinidad	28	7.3	27	2.0	1†	2.6
Long Lake	40	2.9	31	0.7	1†	1.1
Riverside	40	9.6	27	7.6	29†	8.4
Liberty	25	4.4	29	2.5	4†	3.2
<i>Neches:</i>						
Rockland	20	1.4	25	0.0	1†	0.3
Beaumont	7	2.0	31	1.1	1†	1.4
<i>Sabine:</i>						
Logansport, La	25	2.6	31	0.7	4†	1.5
Merryville, La	20	10.3	26	2.2	6	4.4
Orange	4	1.2	31	0.1	1†	0.6

*Also on subsequent dates

Total Precipitation, Inches, August, 1918.

